



BITUMINOUS-COATED CORRUGATED METAL CULVERT PIPE AND PIPE ARCHES FIELD SECTION 1021

1021.1 SCOPE. To establish procedures for the inspection, acceptance, and reporting of bituminous-coated corrugated metal culvert pipe and pipe arches.

1021.2 APPARATUS.

- (a) Micrometer capable of measuring to 0.0001 in. [0.00254 mm] and accurate to within at least 0.001 in. [0.0254 mm].
- (b) Rule with suitable gradations to accurately measure the material to be inspected.
- (c) The Corrugated Metal Pipe (CMP) Inspection Guide.

1021.3 PROCEDURE.

1021.3.1 Bituminous-Coated Corrugated Metal Culvert Pipe. Bituminous-coated corrugated metal culvert pipe and pipe arches are to be accepted in accordance with Specification Sec 1021.2. The basis of acceptance for the bituminous material will be in accordance with AASHTO M 190, except acceptance may be based on samples obtained from storage or from the dipping tanks.

1021.3.2 Material. The pipe shall be in accordance with Specification Sec 1020 and Specification Sec 1024. The bituminous material shall be in accordance with AASHTO M 190.

1021.3.3 Identification Markings. Pipe is to be marked as described in [FS-1020.3.3](#).

1021.3.4 Random Sampling. Random samples of steel sheet are to be taken as described in [FS-1020.3.4](#). Random samples of bituminous coating are to be taken in accordance with AASHTO M 190.

1021.3.5 Field Inspection. Field inspection shall be performed in accordance with and at the frequency specified in [FS-1020.3.5](#).

1021.3.6 Fabrication. Fabrication of bituminous-coated corrugated metal culvert pipe and pipe arches shall be in accordance with Specification Sec 1020 and AASHTO M 190.

1021.3.7 Lift Hooks or Loops. Lift hooks or loops, if agreed upon by the engineer and manufacturer, may be attached to pipe and pipe arches to facilitate handling.

1021.3.8 Repair of Damaged Bituminous Coating. Bituminous coating damaged or displaced during delivery or installation shall be repaired as directed the engineer by application of hot bituminous material of the same type as that originally used. Care shall be taken to avoid damage to the bituminous materials during heating.

1021.4 SAMPLE RECORD. Sample ID's shall be assigned and sample records shall be created in accordance with [FS-1020.4](#).

